CLAIMS

1. A corneal endothelium-like sheet, comprising:

a collagen layer; and

a cell layer formed on the collagen layer, the cell layer consisting of cells derived from corneal endothelium.

2. A corneal endothelium-like sheet according to claim 1, wherein the collagen layer is derived from amniotic membrane.

3. A corneal endothelium-like sheet according to claim 1, wherein the collagen layer consists of amniotic membrane from which the epithelium has been removed.

4. A corneal endothelium-like sheet comprising a cell layer consisting of cells derived from corneal endothelium.

5. A corneal endothelium-like sheet according to claim 1, wherein the cell layer has a monolayer structure.

6. A corneal endothelium-like sheet according to claim 1, wherein the cell density of the cell layer is about 2000 cells/mm^2 to about 4000 cells/mm^2.

7. A corneal endothelium-like sheet according to claim 1, wherein the plane view shape of the cells derived from corneal endothelium is hexagonal.

8. A corneal endothelium-like sheet according to claim 1, wherein the cells derived from corneal endothelium are arranged regularly in the cell layer.

9. A method for constructing a corneal endothelium-like sheet, the method comprising the following steps:

a) culturing and proliferating collected corneal endothelial cells;

b) collecting the proliferated corneal endothelial cells and producing a cell suspension; and

c) planting the cell suspension on a collagen layer and culturing thereof.

10. A method for producing a corneal endothelium-like sheet according to claim 9, wherein the following step is carried out after step b):

b-1) increasing the cell density in the cell suspension using centrifugation.

11. A method for producing a corneal endothelium-like sheet according to claim 9, wherein centrifugation is carried out after planting the cell suspension in step c).

12. A method for producing a corneal endothelium-like sheet according to claim 9, wherein step c) comprises the following steps:

c-1) placing a container in a culture container, the container having a bottom surface consisting of a membrane with a pore size capable of allowing a culture solution to pass through;

c-2) forming a collagen layer on the bottom face of the container;

c-3) planting the cell suspension on the collagen layer;

c-4) carrying out centrifugation;

c-5) culturing.

13. A method for producing a corneal endothelium-like sheet according to claim 9, wherein the collagen layer is derived from amniotic membrane.

14. A method for producing a corneal endothelium-like sheet according to claim 9, wherein the collagen layer consists of amniotic membrane from which the epithelium has been removed.